



# MagChem® 50

## Light Burned Magnesium Oxide

<b>DESCRIPTION</b>	MagChem 50 is a high purity, light burned magnesium oxide produced from magnesium-rich brine and dolomitic lime. This fine white powder has a very high reactivity index, low bulk density, and excellent flow properties.		
<b>USES</b>	MagChem 50 is well suited for chemical reactions where high reactivity and rapid conversion to magnesium hydroxide are required because of its very high surface area. MagChem 50 has high purity and controlled activity which makes it an excellent magnesium source for the manufacture of many magnesium compounds. MagChem 50 is used in rubber compounding, plastic thickening, filtrate clarification, odor removal, and a variety of selective adsorption processes.		
<b>COMPOSITION</b>		<b>Typical</b>	<b>Specification</b>
	Magnesium Oxide (MgO), % ignited basis	98.2	97.0 min.
	Calcium Oxide (CaO), %	0.8	1.0 max.
	Silicon Oxide (SiO <sub>2</sub> ), %	0.35	0.5 max.
	Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ), %	0.15	0.3 max.
	Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ), %	0.10	0.2 max.
	Chloride (Cl), %	0.30	0.5 max.
	Sulfate (SO <sub>3</sub> ), %	0.05	0.3 max.
	Loss on Ignition, %	3.5	6.0 max.
<b>PHYSICAL PROPERTIES</b>		<b>Typical</b>	<b>Specification</b>
	Loose Bulk Density, lb/ft <sup>3</sup> (g/cm <sup>3</sup> )	24 (0.38)	
	Median Particle Size, micron	3 - 8	
	Surface Area, m <sup>2</sup> /g	60	50 min.
	Activity Index, seconds	8	9 max.
	% Passing 100 mesh	100.0	99.9 min.
	% Passing 325 mesh	99.5	99.0 min.
<b>PACKAGING</b>	Martin Marietta Magnesia Specialties offers a variety of packaging options, including bulk (truck and railcar), bags, and bulk sacks. Please contact a sales representative for information on available packaging options.		
<b>STORAGE</b>	Store in dry place. Exposure to moisture may cause caking.		

NOTICE: THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. ANY RECOMMENDATIONS OR SUGGESTIONS MADE ARE WITHOUT WARRANTY OR GUARANTEE OF RESULTS SINCE CONDITIONS OF HANDLING AND OF USE ARE BEYOND OUR CONTROL; WE THEREFORE, ASSUME NO LIABILITY FOR LOSS OR DAMAGE INCURRED BY FOLLOWING THESE SUGGESTIONS. SELLER WARRANTS ONLY THAT THIS PRODUCT WILL MEET THE SPECIFICATIONS SET FORTH. ANY OTHER REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, IS SPECIFICALLY DISCLAIMED INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY. SELLERS AND MANUFACTURERS ONLY OBLIGATION SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT PROVED TO BE DEFECTIVE. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR USERS INTENDED APPLICATION AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE IN TORT, CONTRACT OR UNDER ANY THEORY FOR ANY LOSS OR DAMAGE, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT

#### Martin Marietta Magnesia Specialties, LLC

8140 Corporate Drive, Suite 220  
Baltimore, Maryland 21236 USA  
Phone: (800) 648-7400 or (410) 780-5500  
Fax: (410) 780-5777  
Email: [MagChem@martinmarietta.com](mailto:MagChem@martinmarietta.com)  
[www.magnesiaspecialties.com](http://www.magnesiaspecialties.com)

**DISTRIBUTED BY: R.E. CARROLL, INC.**  
1570 North Olden Avenue Ext.  
Ewing, NJ 08638-3204 USA  
T: 609-695-6211/800-257-9365  
F: 609-695-0102 [Orders@RECarroll.com](mailto:Orders@RECarroll.com)



MagChem® is a trademark of  
Martin Marietta Magnesia Specialties, LLC

QUALITY SYSTEM  
ISO 9001 CERTIFIED